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life, from the remote past to the present, will not only help us to forecast the future, but may guide us in our duty of leaving the world better than we found it."

Here our exposition of this able work must end; anthropologists may not agree with all of the author's conclusions; the science is in its infancy, and its center of gravity is not yet settled, but it must prove an invaluable manual of the subject. Few errors appear in it; a rather startling one is the author's statement on p. 30, that the musk ox "may still be hunted in the Rocky mountains with the grizzly bear." This is an evident slip of the pen.

KNOWLEDGE<sup>1</sup>.—Under this title comes to us the first number of a popular scientific magazine. We welcome as many such journals as there is room for; whether there is for this one, time will show. Judging from the first number, "*Knowledge*," will be more than usually popular. We can anticipate that the department of astronomy will be very well conducted. There are several valuable articles, *e. g.*, "On science and Religion," by the editor, of a mediatory character, and one on The Relation of Food to Muscular Work, by Dr. Carpenter; also one on Illusions, by Thomas Foster, and a review of Darwin on Earth Worms. Of less value is a review of Delaunay's paper on the relative characteristics of men and women, which from the style of its logic, appears to have been written by one of the sex it seeks to defend from Dr. Delaunay's definitions. We hope for *Knowledge* a large share of usefulness and patronage.

RECENT BOOKS AND PAMPHLETS.—Notes on Sciomyzidæ with descriptions of new species. By Dr. L. T. Day, New Haven, Conn. From the Canadian Entomologist, Vol. XIII, No. 5, pp. 85–89. From the author.

List of N. American Sarcophagidæ, examined by R. H. Meade, Esq., Bradford, England. By Dr. H. A. Hagen, Cambridge, Mass. From the Canadian Entomologist, Vol. XIII, 1881, pp. 146–150. From the author.

On Simulium. By Dr. H. A. Hagen, Cambridge, Mass. From the Canadian Entomologist, Vol. XIII, 1881, pp. 150–151. From the author.

Revision du Groupe des Cydnidés de la famille des Pentatomides. 1<sup>re</sup> partie. Par M. Victor Signoret. From the Annales de la Société Entomologique de France, 1881, pp. 25–52, tab. 2. From the author.

Revision of the species of Polyphylla of the United States. By George H. Horn, M.D. From Transactions American Entomological Society, Vol. IX, 1881, pp. 73–76. From the author.

Die Stegocephalen (Labyrinthodonten) aus dem Rothliegenden des Plauerischen Grundes bei Dresden. Von Herman Credner, in Leipzig. I Theil. I Einleitung. 2 Branchiosaurus gracilis Cred. (Tafel xv bis xviii. 8vo, pp. 32, 3 quarto plates, col.) Berlin, 1881.

On the Petrel called *Thalassidroma nereis* by Gould, and its affinities. By W. A. Forbes, B.A., F.L.S., F.G.S., Prosector to the Zoological Society. 8vo, pp. 3. Extract from the Proceedings of the Zoological Society of London, June 21, 1881. London, 1881. From the author.

<sup>1</sup>*Knowledge*.—An Illustrated Magazine of Science. Plainly worded, exactly described. Conducted by R. A. PROCTER, B.A. Wyman & Sons, 745 Great Queen Street, London,

Notes on the anatomy and systematic position of the Jacanas (Parridæ). By W. A. Forbes, B.A., Prosector to the Society. 8vo, pp. 10, cuts. Extract from the Proceedings of the Zoological Society of London, May 17, 1881. From the author.

The Pipes of all Peoples. By William Bragge. 8vo, pp. 16. Reprint from the Binghampton Daily Post, Dec. 16, 1870. Binghampton, 1880. From E. A. Barber.

Science and Art Department, Edinburgh Museum of Science and Art. Guide to the Loan Collection of objects connected with the use of tobacco and other narcotics. 8vo, pp. 20. Edinburgh, 1880. From E. A. Barber.

The Bragge Collection. Reprint from "Cope's Tobacco Plant." December, 1880. 4to, pp. 4. Liverpool, 1880.

On the Conformation of the thoracic end of the Trachea in the "Ratitate" Birds. By W. A. Forbes, B.A., F.L.S., Prosector to the Society. 8vo, pp. 12, cuts. Extract from the Proceedings of the Zoological Society of London, June 21, 1881. London, 1881. From the author.

Osteology of the North American Tetraonidæ. By Dr. R. W. Schufeldt, U.S.A. 8vo, pp. 40, 8 plates. Department of the Interior, United States Geological and Geographical Survey. Extract from the Bulletin of the Survey, Vol. VI, No. 2. Washington, Sept. 19, 1881. From the author.

Osteology of Lanieu's Ludovicanus excubitoroides. By R. W. Schufeldt, M.D., First Lieut. Med. Dept. U. S. Army. 8vo, pp. 16, 1 plate. Department of the Interior, United States Geological and Geographical Survey. Extract from Bulletin VI, No. 2. Washington 1881. From the author.

Observations upon the Hippopotamus. By Henry C. Chapman, M.D. 8vo, pp. 24, 4 plates, cuts. Extract from the Proceedings of the Academy of Natural Sciences of Philadelphia. Philadelphia, 1881. From the author.

Problems in Entomology. An address by Samuel H. Scudder before the Entomological Club (afterwards the sub-section of Entomology) of the American Association for the Advancement of Science, Boston meeting, August 24, 1880. 8vo, pp. 10. Salem, 1881. From the author.

The Tertiary Lake Basin of Florissant, Colorado. By Samuel H. Scudder. 8vo, pp. 20, map. Department of the Interior, United States Geological and Geographical Survey. Washington, 1881. From the author.

Report of Professor Spencer F. Baird, Secretary of the Smithsonian Institution, for the year 1880. 8vo, pp. 84. Government Printing Office, Washington, 1881. From the author.

General Index and Supplement to Nine Reports on the Insects of Missouri. By Charles V. Riley, M.A., Ph.D. 8vo, pp. 178. Department of the Interior, United States Entomological Commission, Bulletin No. 6. Government Printing Office.

Chinch Bug, its history, character and habits, and means of destroying it or counteracting its injuries. By Cyrus Thomas, Ph.D. 8vo, pp. 44, cuts. Department of the Interior, United States Entomological Commission, Bulletin No. 5. Government Printing Office, Washington, 1879. From the author.

The Hessian Fly, its ravages, habits, enemies, and means of preventing its increase. By A. S. Packard, Jr., M. D. 8vo, pp. 40, map. Department of the Interior, United States Entomological Commission. Bulletin No. 4. Government Printing Office, Washington, 1880. From the author.

First Annual Report of the United States Geological Survey, to the Hon. Carl Schurz, Secretary of the Interior. By Clarence King, Director. 4to, pp 80, map, bound. Government Printing Office, Washington, 1880. From author.

Bulletin of the United States Geological and Geographical Survey. Vol VI, No. 2. Department of the Interior. Government Printing Office, Washington, September 19, 1881. From the secretary.

Cassell's Natural History, parts, 56-57. 4to, pp. 40, 11 plates. Cuts. New York, 1881. From the editor (P. M. Duncan, M. D., F. R. S.).

Scolopendrella and its position in nature. By A. S. Packard, Jr. 8 vo. pp. 8. Extra. From the American Naturalist, September, 1881. Philadelphia, 1881. From the author.

Notes on the Early Larval Stages of the Fiddler Crab, and of Alpheus. By A. S. Packard, Jr. 8vo, pp. 10. Cuts. Extract from the American Naturalist, October. Philadelphia, 1881. From the author.

On a New Cray-Fish, from the Lower Tertiary of Western Wyoming. By A. S. Packard, Jr. 8vo, pp. 10. Cuts. Department of the Interior, United States Geological and Geographical Survey. Government Printing Office, Washington, September 19, 1881. From the author.

Annotated List of Birds of Nevada, by W. J. Hoffman M. D. 8vo, pp. 50. Department of the Interior, United States, Geological and Geographical Survey. Government Printing Office, Washington, 1881. From the author.

Günther's Literature and Morphology of Fishes. A review of Dr. Günther's introduction to the Study of Fishes. By Theodore Gill, M. A., M. D., Ph.D. 12mo, pp. 16. Extract from the "Forest and Stream," New York, 1881. From the author.

The New Botany. A Lecture on the best method of Teaching. By W. J. Beale, M. D., Ph.D. 8vo, pp. 16. From the Transactions of the Twenty-ninth annual Meeting of the Michigan State Teacher's Association, Lansing, 1881. From the author.

Mivart on the Cat, Review of by Prof. George Macloskie. 8vo, pp. 4. From the October number of the Presbyterian Review. New York, 1881. From the author.

The Journal (Formerly Archives) of Comparative Medicine and Surgery. A Quarterly Journal of the Anatomy, Pathology, and Therapeutics of the Lower Animals. New York, 1881. From the publishers.

Beiträge zu einer Kraniologie der europäischen Völker. Von Professor J. Kollmann, in Basel. 4to, pp. 120. 4 plates, colored, cuts. Aus dem "Archiv für Anthropologie." Band XIII, tes 4. Braunschweig, 1881. From the author.

Essai sur Le Classement des Animaux qui vivent sur la Plage et dans environs de Dunkerque. Troisième fascicule. Par M. O. Terquem, ancien Pharmacien. 8vo, pp. 54. 5 plates. 1881.

Photographs of remains of Batrachia of the Coal Measures of Nova Scotia. By J. W. Dawson. Montreal 1881.

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## GENERAL NOTES.

### BOTANY.<sup>1</sup>

**DIMORPHISM IN BLACK MUSTARD.**—It may not be generally known that there are two forms of flowers in the common mustard (*Brassica nigra*), which differ mainly in the length of the pistil. In the short-styled form, the top of the stigma does not quite reach to the bases of the higher anthers, and is about even with the tips of the lower ones. The long-styled has the stigma reaching to the middle of the higher anthers. The dimensions of the stamens are nearly identical in the two forms.

In each flower, they may be naturally divided into two sets, each set consisting of two long stamens and one short. Those of the same set face toward each other, that is, toward the nectary of the set, which is surrounded by them and the pistil. There are two nectaries, therefore in each flower, and on opposite sides of the pistil. Two advantages of this arrangement should be mentioned: first, the anthers near the pistil turn away from it, so that their pollen does not easily reach it, but rather the bill of the insect which reaches down to the nectary, and second, as the

<sup>1</sup>Edited by PROF. C. E. BESSEY, Ames, Iowa.